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Regulating non-linear engineering process e.g. DC machine field weakening

or multi-axle robot movement behaviour - by linearisation with deviation

observer using parallel circuit of desired model with associated non-linear engineering process to linearise non-linear process with model

integrated in deviation observer

Patent Assignee: BRUCE-BOYE C O (BRUC-I)

Inventor: BRUCE-BOYE C O

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19634923	A1	19980305	DE 1034923	A	19960829	199815 B
DE 19634923	C2	19990819	DE 1034923	A	19960829	199937

Priority Applications (No Type Date): DE 1034923 A 19960829

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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DE 19634923	A1	10		G05B-013/04	
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DE 19634923	C2			G05B-013/04	
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Abstract (Basic): DE 19634923 A

The method of regulation is used especially for regulating the torque at a motor shaft of separately excited DC machines using field

weakening for speed variation or three-phase AC machines in a field weakening context or for active damping of the elastic vibrations

of

load cable of transporter crane. The non-linear technical process

is

linearised using the parallel circuit of a desired model, with the associated non-linear technical process.

The desired model is integrated in the deviation observer, and it

possesses only the linear part of the technical process and/or a representative operating circumstance. The behaviour of the desired model is forced in this manner to the non-linear technical process.

ADVANTAGE - Changeover mechanisms not required. Real system i.e.

non-linear technical process can be forced to behave in form of desired model.

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Title Terms: REGULATE; NON; LINEAR; ENGINEERING; PROCESS; DC; MACHINE; FIELD; WEAK; MULTI; AXLE; ROBOT; MOVEMENT; BEHAVE; LINEAR; DEVIATE; OBSERVE; PARALLEL; CIRCUIT; MODEL; ASSOCIATE; NON; LINEAR; ENGINEERING;

PROCESS; LINEAR; NON; LINEAR; PROCESS; MODEL; INTEGRATE; DEVIATE; OBSERVE

Derwent Class: S02; T06; V06; X13; X25

International Patent Class (Main): G05B-013/04

International Patent Class (Additional): G01M-015/00; G05B-017/00;  
H02P-007/00

File Segment: EPI

Manual Codes (EPI/S-X): S02-J01; T06-A05; T06-A07B; T06-B12; T06-D08E;  
V06-N02; V06-N03; X13-G01A1A; X13-G01B1; X25-F05

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